

# **BONE CEMENT MIXING AND DELIVERY DEVICE FOR INJECTION AND METHOD THEREOF**

## **ABSTRACT OF THE DISCLOSURE**

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A bone cement mixing and delivery assembly is disclosed for mixing a powdered copolymer and a liquid monomer to form a bone cement and delivering the bone cement. The assembly includes a cartridge having a distal end and a proximal end and defining a mixing chamber between the distal end and the proximal end. A transfer mechanism having a cap and a stem supporting a piston and a plunger is connected to the distal end. The transfer mechanism includes a first advancement mechanism for advancing the piston and plunger in unison and a second advancement mechanism for moving the plunger independent of the piston. The assembly further includes a removable handle having a shaft for attachment of a mixing blade and a quick-release connector and a release button for locking and unlocking the mixing blade from the removable handle.